

1 Attorney Docket No. 82736

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SODIUM GALLIUM OXIDE ELECTROLYTE

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ADDITIVE FOR ALUMINUM ANODE ACTIVATION

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ABSTRACT OF THE DISCLOSURE

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An additive for an aluminum-based semi-fuel cell system

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includes a combination of components including gallium,

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oxygen, and a sodium component dissolvable an alkaline

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electrolyte solution such as seawater and sodium hydroxide.

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These components form sodium gallium oxide and prevent or

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reduce formation of an oxide layer on a surface of an aluminum

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anode in the alkaline electrolyte of the semi-fuel cell

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system.

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